

ABSTRACT

A pressure regulation device for selectively regulating the flow of a fluid between a lower pressure sink of a breast pump and a higher pressure source, the pressure regulation device comprising: (a) a valve body oriented with respect to a valve seat to selectively provide fluid communication between a lower pressure sink of a breast pump and a higher pressure source; and (b) an actuator operatively coupled to at least one of the valve body and the valve seat to manipulate the orientation of the valve seat with respect to the valve body, where the actuator is repositionable to selectively manipulate a volumetric flow of fluid between the higher pressure source and the lower pressure sink by varying the proximity of the valve seat with respect to the valve body.